

Amendments to the Claims:

This listing of claims will replace all prior versions of claims in the application.

1. (Cancelled).
2. (Currently Amended) The inhaler of claim **[[1]] 19** wherein the dispersion chamber includes an inner wall forming a bead race, and wherein the bead moves around the bead race upon inhalation by the patient.
3. (Original) The inhaler of claim 2 wherein the bead race has a radius of curvature greater than a radius of curvature of the bead.
4. (Original) The inhaler of claim 2 wherein the dispersion chamber has a flat bottom surface and a flat top surface adjoining the bead race.
5. (Cancelled).
6. (Currently Amended) The inhaler of claim **[[1]] 19** wherein the bead moves around chaotically in the dispersion chamber when a patient inhales on the outlet.
7. (Currently Amended) The inhaler of claim **[[1]] 19** further comprising a dose platform adjacent to the inlet, for holding a dose of a dry powder pharmaceutical.
8. (Currently Amended) The inhaler of claim **[[1]] 19** further comprising an obstruction in the dispersion chamber to cause the bead to move chaotically.
9. (Currently Amended) The inhaler of claim **[[1]] 7** wherein the bead has or acquires a static electrical charge, and particles of the dry powder also have or acquire a static electrical charge of the same polarity, so that the bead and the particles of dry powder repel each other.

10. (Currently Amended) The inhaler of claim ~~[[1]]~~ 19 wherein the dispersion chamber comprises a separate component, installable into, and removable from the inhaler.

11. (Currently Amended) The inhaler of claim ~~[[1]]~~ 19 wherein a plurality of beads are located in the dispersion chamber, and wherein at least one of the beads includes a discontinuity.

12. (Original) The inhaler of claim 11 wherein the bead having the discontinuity is polygonal shaped, and the discontinuity comprises a corner.

13. (Original) The inhaler of claim 11 wherein the bead having the discontinuity comprises a sphere with a flat surface.

14. (Currently Amended) The inhaler of claim ~~[[1]]~~ 19 further comprising means for providing feedback to the patient based on an airflow rate in the dispersion chamber.

15. (Currently Amended) The inhaler of claim ~~[[1]]~~ 19 wherein from 2 to 10 round beads are provided in the dispersion chamber.

16. (Original) The inhaler of claim 15 wherein the beads move around the dispersion chamber at 4000-10,000 rpm.

17. (Currently Amended) The inhaler of claim ~~[[1]]~~ 19 wherein the dispersion chamber has a characteristic dimension that is from 4 to 20 times greater than [the] a characteristic dimension of the bead.

18. (Cancelled).

19. (Previously Presented) An inhaler comprising:  
a dispersion chamber having an open central interior;  
a bead race in the dispersion chamber;

one or more beads in the dispersion chamber;  
an inlet connecting into the dispersion chamber;  
an outlet connecting into the dispersion chamber and spaced apart from the inlet; and

a chamber ring extending partially into the bead chamber, for preventing any bead from moving out of the dispersion chamber and into the outlet.

20. (Previously Presented) The inhaler of claim 19 wherein the dispersion chamber has a flat bottom surface and a flat top surface adjoining the bead race.

21. (Previously Presented) The inhaler of claim 19 with a largest bead in the chamber having a characteristic dimension of at least 50 to 90% of an interior height of the dispersion chamber.

22. (Previously Presented) The inhaler of claim 19 with the open central interior in the same plane as the bead race.

23-25. (Cancelled).